

A 100% renewable gas mix in 2050?



Pour : ADEME, GrDF, GRTgaz

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Domaine : Renewable gas

Interested in exploring the potential of a 100% renewable gas mix by 2050 in France, ADEME, GrDF and GRTgaz chose to work with a team led by Solagro to conduct a prospective feasibility study.

Déroulement

The study was organized in three parts:

- an evaluation of the availability of resources to produce renewable gas through three main processes (anaerobic digestion, gasification, power-to-gas)
- an evaluation of the total demand for gas in 2050, taking into account both global energy savings and a new demand for fuel gas
- the need to optimize the balance between supply and demand via an adaptation of existing networks.

Résultats

Finally, different scenarios were created to test the sensitivity to various issues:

- the relative importance of renewable gas in the total energy mix
- resource accessibility